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Docket No. MPS-411XC1
Serial No. 09/334,163

*B1
concl*

No. PTA-1396 (deposited February 22, 2000); LS288, ATCC No. PTA-3642 (deposited August 16, 2001); LS0417, ATCC No. PTA-1397 (deposited February 22, 2000).

In the Claims

Please substitute the following claims:

(twice amended)

*B2
Sub
C1*

1. An assemblage of corn seeds, derived from the high oleic line "Holeisyn," having a mean saturate content of less than about 7.0%, a mean oleic acid content of at least 64.9%, and a mean linoleic acid content of 27.4% or less, by weight relative to the total fatty acid content of said seed.

(twice amended)

*B3
Sub
C2*

4. The assemblage of corn seeds according to claim 1, said seeds being obtained from a plant or plants belonging to a corn line selected from the group consisting of LS0417 (ATCC Accession No. PTA-1397), LS1498 (ATCC Accession No. PTA-1396), LS288 (ATCC Accession No. PTA-3642), or sublines produced therefrom.

(twice amended)

*B4
Sub
C4*

6. A corn plant, derived from the high oleic line "Holeisyn," that produces seeds having a mean saturate content of less than about 7.0%, a mean oleic acid content of at least 64.9%, and a mean linoleic acid content of 27.4% or less, by weight relative to the total fatty acid content of said seeds.

(twice amended)

*B5
Sub
C5*

10. The corn plant according to claim 6, wherein said corn plant belongs to a corn line selected from the group consisting of LS1498 (ATCC Accession No. PTA-1396), LS288 (ATCC Accession No. PTA-3642), and LS0417 (ATCC Accession No. PTA-1397), or sublines produced therefrom.

(twice amended)

16. A method for producing low saturate corn material, comprising the steps of:

(a) obtaining a plurality of corn seeds, derived from the high oleic line "Holeisyn," having a mean saturate content of less than about 7.0%, a mean oleic acid content of at least 64.9%, and a mean linoleic acid content of 27.4% or less;

(b) growing out said plurality of corn seeds to obtain a population of corn plants;

(c) intermating plants comprising said population to produce first seeds;

(d) subjecting said first seeds to selection based on saturate content, such that a predetermined saturate percentage of said first seeds is retained and plants grown from said predetermined percentage of seeds are intermated to produce second seeds; and

(e) with said second seeds obtained, repeating steps (b), (c), and (d) at least once, whereby plants producing seeds that have a mean saturate content of less than about 7.0% by weight are obtained.